



**Agronomy Facts No. 54**

**October 24, 2023**

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## **2023 Maryland Corn Hybrid Performance Tests**

<http://www.psla.umd.edu/extension/md-crops>

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### Test Procedures

The University of Maryland offers a fee-based, corn hybrid performance testing program to local and national seed companies. The results from these replicated trials provide agronomic performance information about corn hybrids tested at five locations in Maryland considered representative of the state's geography and weather conditions. Table 1 summarizes the agronomic and production information for each test site.

Hybrids tested in 2023 were entered by participating seed companies, listed in Table 2, that were solicited for submission of hybrids. These hybrids are mostly all currently available for purchase, but there is the potential that some experimental lines which are still under evaluation will be included. Select Pioneer, Dekalb, and Agrigold hybrids were identified for use as checks in the test. The inclusion of the performance data for check hybrids that are proven performers in the Mid-Atlantic region allows comparisons of newer hybrids to proven hybrids.

During 2023, 57 hybrids were tested using three maturity groups: early season (13 hybrids, Table 5), mid-season (15 hybrids, Table 6), and full season (29 hybrids, Table 7). Each company designated maturity group assignments for hybrids they submitted. Check hybrids were included in each of the five tests. All hybrid genetic traits and seed treatments are listed in Tables 5-7.

Each hybrid was replicated three times per location. Planting was done with a modified, four-row John Deere 1750 planter equipped with coulters and trash wheels for no-till planting. The modified planter units were manufactured by Clewell Precision Machine, Inc. Milton, PA. Each plot was four rows spaced 30 inches apart. Target population was 30,000 seeds per acre at dryland locations and 34,500 seeds per acre at the irrigated location (Salisbury). Plot harvest length was approximately 20 feet. Harvest stand and number of lodged plants were counted within two weeks of harvest to determine population and lodging, respectively. The center two rows of each plot were harvested with an Almaco R1 research combine (Almaco Co., Nevada, IA). Grain yield and harvest moisture were measured for each plot. These data were collected with a Seed Spector LRX system (Almaco Co., Nevada, IA) and recorded on Microsoft xTablet T1600. Test weight was not recorded for any locations in the test due to a malfunction in the test weight chamber of the combine. The LESREC – Poplar Hill location sustained structural and crop damage due to a tornado that touched down on August 15<sup>th</sup>. When evaluating stand counts and lodging prior to harvest, extreme lodging in most plots and the inability to accurately and safely harvest plots (i.e. harvest of lodged outside corn rows inaccurately recording weight) led to removal of this location from the report. Animal damage was noted in plots at some locations. To systematically remove outliers in the data, across all locations plots with yields that were less than or greater than three standard deviations from the location mean were removed from the dataset. Where two replicates of a location were removed at a location, leaving only one replicate, the entry was removed from the dataset completely.

### Test Results

The overall performance across the locations for the hybrids in each maturity group is reported in Tables 8-10. Hybrid performance at individual locations can be found in Tables 11-22. The agronomic

characteristics reported are yield, in bushels/acre corrected to 15% moisture content, harvest moisture content, percent lodging, and harvest population.

While we had some challenges with animal damage in the peripheral plots at a few locations in 2023, generally yields were good this year. Planting and harvest were timely and the weather did not greatly impact field operations at any of our sites this year, except the Poplar Hill location that was removed from the report. Yields averaged across the five locations for early (13), mid- (15), and full-season (29) varieties at 219 bu/ac, 227 bu/ac, and 230 bu/ac, respectively. These yields are extremely similar to yields observed in 2022, with early, mid-, and full-season yields differing by +5, -2, and -1 bu/ac, respectively.

A least significant difference (LSD) value is reported for each test where statistical significant differences ( $P \leq 0.1$ ) for a variable were observed among hybrids. The mean separation value has been calculated at the 10% probability level ( $LSD_{0.1}$ ). The LSD can be used to compare two hybrids within the same test. For example, when the yield difference between two hybrids is greater than the LSD value, there is a 90% certainty that the difference in yield is real rather than due to random variability. The coefficient of variation (CV) is a measure of the variability that existed at a test site. It is used as an indicator of the degree of precision for a test. In general, CV values below 10% for yield indicate that the precision for distinguishing yield differences was very good. Generally, CV values were mostly low this year, although there were a few maturity groups where a significant yield differences was not determined.

#### Relative Yield

The selection of a hybrid or hybrids based solely on performance at one location is not recommended. It is better to select hybrids based upon performance over a number of locations and years, if possible. In order to compare the performance of each hybrid across the four locations, relative yield tables (Tables 23-25) are included. Relative yield is the ratio of the yield of a hybrid at a location to the mean yield of all the hybrids at that location expressed in percentage. A hybrid that has a relative yield consistently greater than 100 across all testing locations is considered to have excellent stability. In 2023, 11 hybrids met this standard: Hubner H0881D (early), Hubner H09G056 (early), Dekalb DKC111-35RIB (mid), Dyna-Gro D50VC09RIB (mid), Mid-Atlantic Seeds MA6094PWE (mid), Dekalb DKC64-22RIB (full), Dekalb DKC66-06RIB (full), Dekalb DKC67-44RIB (full), Dekalb DKC68-35RIB (full), Hubner H4763RC2P (full), and Revere 1627 TC (full). Nine hybrids (4 early, 2 mid-season, 4 full season) had relative yield greater than 100 at three locations, a mark of good stability.

#### Acknowledgments

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#### Additional Information

The inclusion of hybrids in these tests is not an endorsement by the University of Maryland. Advertising statements about a company's hybrids can be made as long as they are accurate statements about the data as published. Statements similar to "See the Maryland Corn Hybrid Tests Agronomy Facts

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Index to Tables	Page
Table 1. Production management information	4
Table 2. Participating companies	5
Table 3. Precipitation received at each location	5
Table 4. Glossary of genetic trait abbreviations	6
Table 5. Maturity, genetics, and seed treatments for early season hybrids	7
Table 6. Maturity, genetics, and seed treatments for mid-season hybrids	8
Table 7. Maturity, genetics, and seed treatments for full season hybrids	9
Table 8. Average performance for early season hybrids at four locations	10
Table 9. Average performance for mid-season hybrids at four locations	11
Table 10. Average performance for full season hybrids at four locations	12
Table 11. Early season hybrids at Wye Research and Education Center	13
Table 12. Mid-season hybrids at Wye Research and Education Center	14
Table 13. Full season hybrids at Wye Research and Education Center	15
Table 14. Early season hybrids at LESREC-Salisbury	16
Table 15. Mid-season hybrids at LESREC-Salisbury	17
Table 16. Full season hybrids at LESREC-Salisbury	18
Table 17. Early season hybrids at Western Maryland Research and Education Center	19
Table 18. Mid-season hybrids at Western Maryland Research and Education Center	20
Table 19. Full season hybrids at Western Maryland Research and Education Center	21
Table 20. Early season hybrids at CMREC-Clarksville	22
Table 21. Mid-season hybrids at CMREC-Clarksville	23
Table 22. Full season hybrids at CMREC-Clarksville	24
Table 23. Relative yield summary for early season hybrids	25
Table 24. Relative yield summary for mid-season hybrids	26
Table 25. Relative yield summary for full season hybrids	27

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Table 1. Production management practices used and other information for the locations of the 2023 Maryland Corn Hybrid Test

Location	Soil Type and Previous Crop	Fertilizer	Herbicides & Insecticides	Tillage	Plant and Harvest Dates	Farm Staff
Wye R&E Center Queenstown, MD	Nassawango silt loam  Double-crop soybeans and cover crop	<u>22 March:</u> 193 lb/ac as 5-26-30 <u>25 April:</u> 11 gal/ac as 21-14-0 <u>9 June:</u> 58 gal/ac as 30% UAN	<u>5 Apr Pre-Plant:</u> Amaze Gold @ 1qt/ac Sunphosate 5 MAX @ 24oz/ac Transform Plus @ 1 qt/100 gal <u>18 May Post-Emerge:</u> Lexar EZ @ 3qt/ac Sunphosate 5 MAX @ 24oz/ac Transform Plus @ 1 qt/100 gal Scanner @ 1pt/100 gal	No tillage with use of trash wheels on planter	<u>Plant</u> 25 April  <u>Harvest</u> 3 October	John Draper  Thomas Eason  Reagan Milby
Lower Eastern Shore R&E Center Salisbury Facility Salisbury, MD	Fort Mott loamy sand  Soybean	<u>12 April:</u> 380 lb/a as 9-0-36-9S <u>31 May:</u> 48 gal/ac as 30% UAN <u>Total:</u> 226-36-135-34S	<u>10 April Pre-Plant:</u> Gramoxone @ 1qt/ac 2,4-D Ester @ 1pt/ac 80/20 Scanner @ 6 fl oz/ac <u>27 April Pre-Emerge:</u> LexarEZ @ 3 qt/ac <u>31 May Post-Emerge:</u> RoundUp @ 24 oz/ac Atrazine 4L @ 16 oz/ac	No tillage with use of trash wheels on planter	<u>Plant</u> 26 April  <u>Harvest</u> 5 October	David Armentrout  Vivian Calder  David Long  James Lynch  Jordan Miller
Central Maryland R&E Center Clarksville Facility Clarksville, MD	Glenville silt loam  Soybeans	<u>22 March:</u> 15,000 gal/ac dairy liquid <u>19 April:</u> 50-30-70-0.5B-1Zn <u>27 April:</u> 30 gal/ac as 30% UAN <u>13 July:</u> 20 gal/ac as 30% UAN	<u>6 April Pre-Plant:</u> Credit Extra @ 1qt/ac 2-4D LV4 @ 1qt/ac <u>27 April Pre-Emerge:</u> Acuron @ 2.5 qt/ac Atrazine @ 1 qt/ac Gramoxone @ 1 qt/ac 80/20 Surfactant @ 1 qt/100 gal	No tillage with use of trash wheels on planter	<u>Plant</u> 27 April  <u>Harvest</u> 9 October	Ryan McDonald  Michael Gray
Western Maryland R&E Center Keedysville, MD	Swanpond – Funkstown silt loam  Soybeans	<u>19 April:</u> 50-70-70-15S <u>26 April:</u> 30 gal/ac as 30% UAN	<u>26 April Pre-Plant:</u> Glystar Plus @ 1 qt/ac <u>Pre-Emerge:</u> Acuron @ 2.5 qt/ac Atrazine 4L @ 1 qt/ac Weedone LV4 @ 1pt/ac Helmquat 3SL @ 1.5 pt/ac	No tillage with use of trash wheels on planter	<u>Plant</u> 27 April  <u>Harvest</u> 9 October	Douglas Price  David Wyand

Table 2. Brands and companies in the 2023 Maryland corn hybrid trials

Brand	Address
AgriGold	1122 East 169th Street, Westfield, IN 46074 www.agrigold.com
Augusta	P.O. Box 899, Verona, VA 24482 www.augustaseed.com
Axis	107 N 9th St, Adel, IA 50003 www.axisseed.com
Dekalb	800 N. Lindbergh Blvd., St. Louis, MO 63167 www.dekalbasgrowdeltapine.com
Dyna-Gro	Nutrien Ag Solution, 396 Washington St., Boydton, VA 23917 www.dynagroseed.com
Growmark FS	1701 Towanda Ave., Bloomington, IL 61701 www.growmarkfs.com
Hubner	Hubner Seed Company, 306 North Main St., Monticello, IN 47960 www.hubnerseed.com
Mid-Atlantic Seeds	Mid-Atlantic Seeds, 316 N Albemarle St., York, PA 17402 www.midatlanticseeds.com
NK Brand	Syngenta Seeds, 4013 Fairmount Pike, Signal Mountain, TN 37377 www.syngenta-us.com
Pioneer	DuPont-Pioneer, PO Box 1000, Johnston, IA 50131 www.pioneer.com
Revere Seed	Revere Seed, 2940 Reach Road, Williamsport, PA 17701 www.revereseed.com
Seedway	1734 Railroad Pl, Hall, NY 14463 www.seedway.com

Table 3. Precipitation received in 2023 at Maryland locations of corn hybrid trials

Month	Wye	Poplar Hill	Salisbury <sup>1</sup>	Keedysville <sup>3</sup>	Clarksville
	inches				
April	4.96	3.09	7.06	0.45	0.30
May	1.37	1.39	2.27	0.12	0.03
June	2.61	0.92	1.94	1.57	0.03
July	3.83	1.05	7.18	1.74	2.83
August	2.69	3.76	4.19	0.14	2.59
September	4.06	5.89	5.33	2.5	6.24
<b>2023 Total (6 mos.)</b>	<b>19.52</b>	<b>16.10</b>	<b>27.97</b>	<b>NA<sup>3</sup></b>	<b>12.02</b>
<b>Long Term Average<sup>2</sup></b>	<b>27.17</b>	<b>22.87</b>	<b>25.33</b>	<b>20.28</b>	<b>19.73</b>

<sup>1</sup>The number in parenthesis following precipitation for each month indicates the amount of supplemental irrigation applied.

<sup>2</sup>Long term average precipitation is for the following number of years at each location: Wye=24; Poplar Hill = 23; Salisbury = 34; Keedysville = 44; Clarksville =14

<sup>3</sup>Incomplete precipitation data collection at this location

Table 4. Glossary of abbreviations for hybrid genetic traits and description of seed treatments.

<b>Abbreviation</b>	<b>Description</b>
3110 GT	All indicate tolerance to both glufosinate-ammonium (Ignite) and glyphosate (Roundup) herbicides in addition to having protection from Western, Northern, Southern and Mexican rootworm and European and Southwestern corn borer.
Acceleron	Seed treatment for nematode and insect protection and soil/seed-borne fungal pathogens with the number referring to the concentration of the insecticide used
Agrishield Max	Seed treatment to control early season disease, insects, and nematodes
Agrisure Above	Trait stack provides two mode of action against above-ground pests and providing glyphosate tolerance
Avicta Complete Corn	Nematacide/insecticide/fungicide seed treatment combination
CB	Hybrid trait providing resistance to corn borer
Cruiser/C250	Seed treatment to provide protection against broad spectrum of insect pests
Droughtgard (DG) Double Pro	Contains drought-tolerant biotechnology trait and dual modes of protection against corn earworm and other above-ground pests
Duracade	Controls above- and belowground pest like earworms, cutworms, armyworms, borers, and rootworms
LL (Liberty Link)	Refers to glufosinate (Liberty) herbicide tolerance
Lumigen	Pioneer proprietary seed treatment
PC,E	Powercore trait with tolerance to 2,4-d, glyphosate, and glufosinate (Enlist E3)
Poncho 500	An insecticide seed treatment with the number referring to the concentration of the insecticide used.
PWE	Powercore trait with tolerance to 2,4-d, glyphosate, and glufosinate (Enlist E3)
Radius 500	Seed treatment for nematode and insect protection with the number referring to the concentration of the insecticide used
RR, RR2	Has glyphosate herbicide tolerance
SSRIB (Smart Stax)	Two modes of action for protection against corn rootworm plus refuge in bag
Trecepta	Protection against European corn borer, broad Lepidopteran plus glyphosate and glufosinate herbicide tolerance
Vibrance Vayantis	Systemic fungicide seed treatment developed to protect corn from damping off disease caused by Pythium
Viptera	Control of corn earworm and effective western bean cutworm control
Votivo	Seed treatment insecticide to control both insects and nematodes in corn
VT2P, VT2PRO	Contains RR2 gene and YieldGard corn stalk borer gene
VT2PDGRIB	Contains RR2 gene, YieldGard corn stalk borer gene, Drought Gard gene, and non-Bt seed blended in the bag creating refuge in the bag
VT2PRIB	Contains RR2 gene and YieldGard corn stalk borer gene and non-Bt seed blended in the bag creating refuge in the bag
Vayantis	Fungicide seed treatment to protect against pythium and phytophthora

Table 5. Relative maturity, genetic traits, and seed treatments for early-season hybrids tested in 2023. Check varieties are bolded.

<u>Brand</u>	<u>Hybrid Name</u>	<u>Relative Maturity</u>	<u>Genetic Traits</u>	<u>Seed Treatment</u>
<b>AgriGold</b>	<b>A637-55-522EZ</b>	<b>107</b>	<b>Liberty Link</b>	<b>AgriShield Max</b>
Augusta	A1958	108	Duracade Viptera	Avicta Complete
Axis	48A72	98	TRE	A500
Axis	57K72	107	TRE	A500
Dekalb	DKC105-35RIB	105	VT2PRIB	A500
Dekalb	DKC56-26RIB	106	TRERIB	A500
Dekalb	DKC108-64RIB	108	SSPRORIB	A500 Votivo
Dyna-Gro	D45TC55RIB	105	Trecepta	A500
Hubner	H0881D	108	Double Pro RR	Poncho 500
Hubner	H09G056	109	Drought Guard Double Pro RR	Poncho 500
<b>Pioneer</b>	<b>P0075AM</b>	<b>100</b>	<b>RR 2, Liberty Link</b>	<b>LumiGEN</b>
<b>Pioneer</b>	<b>P0732Q</b>	<b>107</b>	<b>RR 2, Liberty Link</b>	<b>LumiGEN, Lumisure 1250</b>
Revere	0707 DGVT2P	107	CB/RR/DG	Radius 500

Table 6. Relative maturity, genetic traits, and seed treatments for mid-season hybrids tested in 2023. Check varieties are bolded.

<u>Brand</u>	<u>Hybrid Name</u>	<u>Relative Maturity</u>	<u>Genetic Traits</u>	<u>Seed Treatment</u>
Augusta	A2262	112	3110GT	Avicta Complete
Axis	60W75	110	TRE	A250
Dekalb	DKC59-82RIB	109	VT2PRIB	A500
Dekalb	DKC111-35RIB	111	VT2PRIB	A500
Dekalb	DKC61-41RIB	111	VT2PRIB	A500
<b>Dekalb</b>	<b>DKC62-70RIB</b>	<b>112</b>	<b>VT2PRIB</b>	<b>A500</b>
Dyna-Gro	D50VC09RIB	110	VT Double Pro	A500
Mid-Atlantic Seeds	MA6094PWE	109	PWE	C250
Mid-Atlantic Seeds	MA8108VT2PRIB	110	VT2PRIB	A250
Mid-Atlantic Seeds	MA8110TRECRIB	111	TRECRIB	A250
Mid-Atlantic Seeds	MA5124VIP3110	112	VIP3110	C250
NK/Syngenta	1040-AA-EZ1	110	Agrisure Above	Cruisemax Corn 500+Vayantis
NK/Syngenta	1188-AA	111	Agrisure Above	Cruisemax Corn 500+Vayantis
<b>Pioneer</b>	<b>P1136AM</b>	<b>111</b>	<b>RR 2, Liberty Link</b>	<b>LumiGEN</b>
Revere	0918 VT2P	109	CB/RR	Radius 500



Table 7. Relative maturity, genetic traits, and seed treatments for full-season hybrids tested in 2023. Check varieties are bolded.

<u>Brand</u>	<u>Hybrid Name</u>	<u>Relative Maturity</u>	<u>Genetic Traits</u>	<u>Seed Treatment</u>
<b>AgriGold</b>	<b>A643-52VT2RIB</b>	<b>113</b>	<b>RR2</b>	<b>Acceleron</b>
Augusta	A2164	114	PC,E	Cruiser Maxx
Axis	66Z71	116	TRE	A500
Dekalb	DKC64-22RIB	114	VT2PRIB	A500
Dekalb	DKC65-95RIB	115	VT2PRIB	A500
<b>Dekalb</b>	<b>DKC66-06RIB</b>	<b>116</b>	<b>TRERIB</b>	<b>A500</b>
Dekalb	DKC67-94RIB	117	TRERIB	A500
Dekalb	DKC67-44RIB	117	VT2PRIB	A500
Dekalb	DKC68-35RIB	118	VT2PRIB	A500
Dekalb	DKC70-45RIB	120	VT2PRIB	A500
Dyna-Gro	D53TC23RIB	113	Trecepta	A500
Dyna-Gro	D53VC54RIB	113	VT Double Pro	A500
Dyna-Gro	D56TC44RIB	116	Trecepta	A500
FS InVISION	FS 6424V RIB	114	VT2P	Poncho Votivo
Hubner	H13G513	113	Drought Guard Double Pro RR	Poncho 500
Hubner	H4763RC2P	115	Double Pro RR	Poncho 500
Hubner	H1880D	118	Double Pro RR	Poncho 500
Mid-Atlantic Seeds	MA8136DGVT2PRIB	113	DGVT2PRIB	A250
Mid-Atlantic Seeds	MA8145VT2PRIB	114	VT2PRIB	A250
Mid-Atlantic Seeds	MA6148PWE	114	PWE	C250
Mid-Atlantic Seeds	MA6153PWE	115	PWE	C250
NK/Syngenta	1523-V-EZ1	115	Viptera	Cruisemax Corn 500+Vayantis
<b>Pioneer</b>	<b>P1608AM</b>	<b>116</b>	<b>RR2, LL</b>	<b>LumiGEN</b>
Revere	1307 TC	113	CB/VIP/RR	Radius 500
Revere	1577 VT2P	113	CB/RR	Radius 500
Revere	1627 TC	116	CB/VIP/RR	Radius 500
Seedway	SW 1421VT	114	Double Pro	Acceleron
Seedway	SW 1600VT	116	Double Pro	Acceleron
Seedway	SW 1661SS	116	SmartStax	Acceleron

Table 8. Average performance of early maturity hybrids evaluated at four locations in 2023.

Brand	Hybrid Name <sup>1</sup>	Yield <sup>2</sup> (bu/ac)		2 yr avg	Moisture %	Lodging <sup>3</sup> %
		2023	2022			
<b>AgriGold</b>	<b>A637-55-5222EZ</b>	<b>215</b>	-	-	<b>17</b>	<b>0</b>
Augusta	A1958	213	-	-	18	0
Axis	48A72	208	-	-	16	1
Axis	57K72	223	-	-	17	1
Dekalb	DKC105-35RIB	219	-	-	16	0
Dekalb	DKC56-26RIB	232*	238	235	17	0
Dekalb	DKC108-64RIB	225	-	-	17	0
Dyna-Gro	D45TC55RIB	214	-	-	17	0
Hubner	H0881D	226	-	-	16	1
Hubner	H09G056	247*	-	-	18	0
<b>Pioneer</b>	<b>P0075AM</b>	<b>188</b>	<b>201</b>	<b>194</b>	<b>16</b>	<b>1</b>
<b>Pioneer</b>	<b>P0732Q</b>	<b>229*</b>	-	-	<b>17</b>	<b>0</b>
Revere	0707 DGVT2P	212	223	217	17	0
<b>Trial Mean (4 Locations)</b>		<b>219</b>	<b>214</b>	-	<b>16.8</b>	<b>0.4</b>
<b>Probability &gt; F</b>		<b>0.0007</b>	-	-	-	-
<b>LSD<sub>0.1</sub></b>		<b>19</b>	-	-	-	-

<sup>1</sup>See Table 5 for trait designations for early season hybrids.

<sup>2</sup>Yields are reported at 15% moisture content.

<sup>3</sup>Lodging is recorded as percentage of plants that are broken below the ear and/or leaning 45° or greater.

<sup>4</sup>Hybrids in **bold** are checks included with funding from Maryland Grain Producers Utilization Board.

\*Hybrids with an asterisk next to yield are not statistically different (Probability > F ≤ 0.1) compared to the top yielding hybrid (highlighted in blue) at this location.

Table 9. Average performance of mid-season maturity hybrids evaluated at four locations in 2023.

Brand	Hybrid Name <sup>1</sup>	Yield <sup>2</sup> (bu/ac)		2 yr avg	Moisture %	Lodging <sup>3</sup> %
		2023	2022			
Augusta	A2262	222	-	-	18	0
Axis	60W75	227	-	-	18	0
Dekalb	DKC59-82RIB	225	239	232	18	1
Dekalb	DKC111-35RIB	239	-	-	19	0
Dekalb	DKC61-41RIB	233	236	234	18	0
<b>Dekalb</b>	<b>DKC62-70RIB</b>	<b>234</b>	<b>242</b>	<b>238</b>	<b>18</b>	<b>1</b>
Dyna-Gro	D50VC09RIB	233	240	236	18	0
Mid-Atlantic Seeds	MA6094PWE	245	-	-	18	0
Mid-Atlantic Seeds	MA8108VT2PRIB	209	227	218	18	1
Mid-Atlantic Seeds	MA8110TRECRIB	226	240	233	18	2
Mid-Atlantic Seeds	MA5124VIP3110	226	214	220	19	0
NK/Syngenta	1040-AA-EZ1	218	-	-	18	1
NK/Syngenta	1188-AA	224	-	-	19	0
<b>Pioneer</b>	<b>P1136AM</b>	<b>228</b>	-	-	<b>19</b>	<b>0</b>
Revere	0918 VT2P	223	225	224	17	0
<b>Trial Mean (4 Locations)</b>		<b>227</b>	<b>229</b>	-	<b>18.2</b>	<b>0.4</b>
<b>Probability &gt; F</b>		<b>0.3546</b>	-	-	-	-
<b>LSD<sub>0.1</sub></b>		<b>NS<sup>5</sup></b>	-	-	-	-

<sup>1</sup>See Table 6 for trait designations for mid-season hybrids.

<sup>2</sup>Yields are reported at 15% moisture content.

<sup>3</sup>Lodging is recorded as percentage of plants that are broken below the ear and/or leaning 45° or greater.

<sup>4</sup>Hybrids in **bold** are checks included with funding from Maryland Grain Producers Utilization Board.

<sup>5</sup>NS indicates that no statistically significant difference was observed for this characteristic.

Table 10. Average performance of full-season maturity hybrids evaluated at four locations in 2023.

Brand	Hybrid Name <sup>1</sup>	Yield <sup>2</sup> (bu/ac)		2 yr avg	Moisture %	Lodging <sup>3</sup> %
		2023	2022			
<b>AgriGold</b>	<b>A643-52VT2RIB</b>	<b>234</b>	-	-	<b>19</b>	<b>3</b>
Augusta	A2164	212	-	-	19	1
Axis	66Z71	228	-	-	21	0
Dekalb	DKC64-22RIB	236	-	-	19	0
Dekalb	DKC65-95RIB	229	235	232	19	1
<b>Dekalb</b>	<b>DKC66-06RIB</b>	<b>242</b>	-	-	<b>19</b>	<b>0</b>
Dekalb	DKC67-94RIB	233	237	235	19	0
Dekalb	DKC67-44RIB	243	-	-	19	1
Dekalb	DKC68-35RIB	244	-	-	20	0
Dekalb	DKC70-45RIB	226	-	-	20	0
Dyna-Gro	D53TC23RIB	223	231	227	18	1
Dyna-Gro	D53VC54RIB	227	-	-	18	1
Dyna-Gro	D56TC44RIB	230	-	-	19	0
FS InVISION	FS 6424V RIB	226	246	236	19	0
Hubner	H13G513	230	231	230	19	1
Hubner	H4763RC2P	234	232	233	19	0
Hubner	H1880D	229	240	234	20	0
Mid-Atlantic Seeds	MA8136DGVT2PRIB	223	237	230	19	0
Mid-Atlantic Seeds	MA8145VT2PRIB	229	231	230	19	0
Mid-Atlantic Seeds	MA6148PWE	222	-	-	19	0
Mid-Atlantic Seeds	MA6153PWE	221	-	-	19	0
NK/Syngenta	1523-V-EZ1	223	-	-	20	1
<b>Pioneer</b>	<b>P1608AM</b>	<b>229</b>	-	-	<b>20</b>	<b>0</b>
Revere	1307 TC	229	237	233	18	1
Revere	1577 VT2P	229	-	-	18	1
Revere	1627 TC	243	-	-	19	0
Seedway	SW 1421VT	226	239	232	19	0
Seedway	SW 1600VT	236	-	-	18	1
Seedway	SW 1661SS	234	-	-	19	0
<b>Trial Mean (4 Locations)</b>		<b>230</b>	<b>231</b>	-	<b>19.1</b>	<b>0.5</b>
<b>Probability &gt; F</b>		<b>0.9748</b>	-	-	-	-
<b>LSD<sub>0.1</sub></b>		<b>NS<sup>5</sup></b>	-	-	-	-

<sup>1</sup>See Table 7 for trait designations for full season hybrids.

<sup>2</sup>Yields are reported at 15% moisture content.

<sup>3</sup>Lodging is recorded as percentage of plants that are broken below the ear and/or leaning 45° or greater.

<sup>4</sup>Hybrids in **bold** are checks included with funding from Maryland Grain Producers Utilization Board.

<sup>5</sup>NS indicates that no statistically significant difference was observed for this characteristic.

Table 11. Performance of early season maturity hybrids evaluated at Wye Research and Education Center, Queenstown, MD in 2023.

Brand	Hybrid Name <sup>1</sup>	Yield <sup>2</sup> (bu/ac)		2 yr avg	Moisture %	Lodging <sup>3</sup> %	Population (plants/ac)
		2023	2022				
<b>AgriGold</b>	<b>A637-55-5222EZ</b>	<b>214</b>	-	-	<b>19.5</b>	<b>0</b>	<b>30966</b>
Augusta	A1958	214	-	-	19.8	0	29040
Axis	48A72	208	-	-	16.9	0	29224
Axis	57K72	236*	-	-	18.6	0	30202
Dekalb	DKC105-35RIB	203	-	-	17.7	1	30446
Dekalb	<b>DKC56-26RIB</b>	<b>248*</b>	<b>241</b>	<b>244</b>	<b>18.2</b>	<b>0</b>	<b>29962</b>
Dekalb	DKC108-64RIB	236*	-	-	19.8	0	33106
Dyna-Gro	D45TC55RIB	222	-	-	18.7	0	33396
Hubner	H0881D	232*	-	-	17.8	0	28306
Hubner	H09G056	237*	-	-	20.3	0	31073
<b>Pioneer</b>	<b>P0075AM</b>	<b>195</b>	<b>198</b>	<b>196</b>	<b>17.3</b>	<b>0</b>	<b>27298</b>
<b>Pioneer</b>	<b>P0732Q</b>	<b>240*</b>	-	-	<b>18.5</b>	<b>0</b>	<b>31350</b>
Revere	0707 DGVT2P	209	221	215	17.1	0	33396
<b>Trial Mean</b>		<b>223</b>	<b>210</b>	-	<b>18.5</b>	<b>0.1</b>	<b>30597</b>
<b>Probability &gt; F</b>		<b>0.0053</b>	-	-	<b>0.0053</b>	<b>0.477</b>	<b>0.4876</b>
<b>LSD<sub>0.1</sub></b>		<b>22</b>	-	-	<b>1.5</b>	<b>NS<sup>5</sup></b>	<b>NS<sup>5</sup></b>
<b>CV%</b>		<b>9.3</b>	-	-	<b>7.5</b>	<b>472</b>	<b>10.9</b>

<sup>1</sup>See Table 5 for trait designations for early season hybrids.

<sup>2</sup>Yields are reported at 15% moisture content.

<sup>3</sup>Lodging is recorded as percentage of plants that are broken below the ear and/or leaning 45° or greater.

<sup>4</sup>Hybrids in **bold** are checks included with funding from Maryland Grain Producers Utilization Board.

<sup>5</sup>NS indicates that no statistically significant difference was observed for this characteristic.

\*Hybrids with an asterisk next to yield are not statistically different (Probability > F ≤ 0.1) compared to the top yielding hybrid (highlighted in blue) at this location.

Table 12. Performance of mid-season maturity hybrids evaluated at Wye Research and Education Center, Queenstown, MD in 2023.

Brand	Hybrid Name <sup>1</sup>	Yield <sup>2</sup> (bu/ac)		2 yr avg	Moisture %	Lodging <sup>3</sup> %	Population (plants/ac)
		2023	2022				
Augusta	A2262	201	-	-	21.1	0	31944
Axis	60W75	213	-	-	21.2	0	29330
Dekalb	DKC59-82RIB	237*	232	234	21.2	0	30691
Dekalb	DKC111-35RIB	243*	-	-	21.3	0	32525
Dekalb	DKC61-41RIB	231	232	231	20.6	0	30492
<b>Dekalb</b>	<b>DKC62-70RIB</b>	<b>258*</b>	<b>250</b>	<b>254</b>	<b>21.3</b>	<b>0</b>	<b>31654</b>
Dyna-Gro	D50VC09RIB	241*	232	237	20.3	0	32235
Mid-Atlantic Seeds	MA6094PWE	258*	-	-	20.7	0	31658
Mid-Atlantic Seeds	MA8108VT2PRIB	230	217	223	20.4	0	31073
Mid-Atlantic Seeds	MA8110TRECIB	240*	229	234	20.8	0	31363
Mid-Atlantic Seeds	MA5124VIP3110	241*	205	223	21.3	0	32234
NK/Syngenta	1040-AA-EZ1	221	-	-	20.6	1	28092
NK/Syngenta	1188-AA	212	-	-	21.3	0	33106
<b>Pioneer</b>	<b>P1136AM</b>	<b>234</b>	-	-	<b>21.0</b>	<b>0</b>	<b>31363</b>
Revere	0918 VT2P	243*	217	230	19.8	0	29330
<b>Trial Mean</b>		<b>233</b>	<b>222</b>	-	<b>20.9</b>	<b>0.1</b>	<b>31127</b>
<b>Probability &gt; F</b>		<b>0.0108</b>	-	-	<b>0.0081</b>	<b>0.5735</b>	<b>0.5938</b>
<b>LSD<sub>0.1</sub></b>		<b>23</b>	-	-	<b>0.7</b>	<b>NS<sup>5</sup></b>	<b>NS<sup>5</sup></b>
<b>CV%</b>		<b>8.9</b>	-	-	<b>3.0</b>	<b>464</b>	<b>8.3</b>

<sup>1</sup>See Table 6 for trait designations for mid-season hybrids.

<sup>2</sup>Yields are reported at 15% moisture content.

<sup>3</sup>Lodging is recorded as percentage of plants that are broken below the ear and/or leaning 45° or greater.

<sup>4</sup>Hybrids in **bold** are checks included with funding from Maryland Grain Producers Utilization Board.

<sup>5</sup>NS indicates that no statistically significant difference was observed for this characteristic.

\*Hybrids with an asterisk next to yield are not statistically different (Probability > F ≤ 0.1) compared to the top yielding hybrid (highlighted in blue) at this location.

Table 13. Performance of full season maturity hybrids evaluated at Wye Research and Education Center, Queenstown, MD in 2023.

Brand	Hybrid Name <sup>1</sup>	Yield <sup>2</sup> (bu/ac)		2 yr avg	Moisture %	Lodging <sup>3</sup> %	Population (plants/ac)
		2023	2022				
<b>AgriGold</b>	<b>A643-52VT2RIB</b>	<b>245*</b>	-	-	<b>21.5</b>	<b>0</b>	<b>29865</b>
Augusta	A2164	213	-	-	21.9	0	31654
Axis	66Z71	250*	-	-	22.4	0	33106
Dekalb	DKC64-22RIB	240*	-	-	21.5	0	29363
Dekalb	DKC65-95RIB	236	235	235	22.7	0	31944
<b>Dekalb</b>	<b>DKC66-06RIB</b>	<b>241*</b>	-	-	<b>21.3</b>	<b>0</b>	<b>30782</b>
Dekalb	DKC67-94RIB	238*	239	238	22.0	0	30596
Dekalb	DKC67-44RIB	251*	-	-	22.6	0	33396
Dekalb	DKC68-35RIB	256*	-	-	22.5	0	31654
Dekalb	DKC70-45RIB	249*	-	-	23.9	0	30202
Dyna-Gro	D53TC23RIB	240*	235	237	21.5	0	30431
Dyna-Gro	D53VC54RIB	235	-	-	21.2	0	31363
Dyna-Gro	D56TC44RIB	237	-	-	21.8	0	30202
FS InVISION	FS 6424V RIB	233	238	235	22.2	0	29560
Hubner	H13G513	243*	222	232	21.7	0	33396
Hubner	H4763RC2P	251*	219	235	21.7	0	30676
Hubner	H1880D	237	259	248	21.9	0	32815
Mid-Atlantic Seeds	MA8136DGVT2PRIB	214	230	222	21.6	0	30201
Mid-Atlantic Seeds	MA8145VT2PRIB	242*	231	236	21.9	0	31073
Mid-Atlantic Seeds	MA6148PWE	237	-	-	21.5	0	34848
Mid-Atlantic Seeds	MA6153PWE	234	-	-	22.2	0	30201
NK/Syngenta	1523-V-EZ1	211	-	-	23.4	0	25845
<b>Pioneer</b>	<b>P1608AM</b>	<b>234</b>	-	-	<b>23.0</b>	<b>0</b>	<b>32525</b>
Revere	1307 TC	232	221	226	21.2	0	29911
Revere	1577 VT2P	245*	-	-	20.9	0	30431
Revere	1627 TC	253*	-	-	22.3	0	31653
Seedway	SW 1421VT	241*	214	227	21.8	0	30057
Seedway	SW 1600VT	236	-	-	21.1	0	29330
Seedway	SW 1661SS	242*	-	-	22.4	0	29040
<b>Trial Mean</b>		<b>238</b>	<b>220</b>	-	<b>22.0</b>	<b>0</b>	<b>30910</b>
<b>Probability &gt; F</b>		<b>0.0064</b>	-	-	<b>&lt;0.0001</b>	<b>0.5072</b>	<b>0.1705</b>
<b>LSD<sub>0.1</sub></b>		<b>18</b>	-	-	<b>0.8</b>	<b>NS<sup>5</sup></b>	<b>NS<sup>5</sup></b>
<b>CV%</b>		<b>6.6</b>	-	-	<b>4.0</b>	<b>927</b>	<b>8.8</b>

<sup>1</sup>See Table 7 for trait designations for full season hybrids

<sup>2</sup>Yields are reported at 15% moisture content.

<sup>3</sup>Lodging is recorded as percentage of plants that are broken below the ear and/or leaning 45° or greater.

<sup>5</sup>NS indicates that no statistically significant difference was observed for this characteristic.

\*Hybrids with an asterisk next to yield are not statistically different (Probability > F ≤ 0.1) compared to the top yielding hybrid (highlighted in blue) at this location.

Table 14. Performance of early season maturity hybrids evaluated at Lower Eastern Shore Research and Education Center – Salisbury Facility in 2023.

Brand	Hybrid Name <sup>1</sup>	Yield <sup>2</sup> (bu/ac)		2 yr avg	Moisture %	Lodging <sup>3</sup> %	Population (plants/ac)
		2023	2022				
<b>AgriGold</b>	<b>A637-55-5222EZ</b>	<b>224</b>	-	-	<b>17.3</b>	<b>0</b>	<b>33686</b>
Augusta	A1958	234	-	-	17.6	0	33106
Axis	48A72	222	-	-	16.1	0	33396
Axis	57K72	250	-	-	16.6	0	33396
Dekalb	DKC105-35RIB	257*	-	-	16.6	0	35719
Dekalb	DKC56-26RIB	261*	257	259	16.0	0	32815
Dekalb	DKC108-64RIB	244	-	-	16.8	0	33977
Dyna-Gro	D45TC55RIB	255*	-	-	16.8	0	33541
Hubner	H0881D	253*	-	-	16.5	0	32815
Hubner	H09G056	275*	-	-	16.9	0	34267
<b>Pioneer</b>	<b>P0075AM</b>	<b>220</b>	<b>215</b>	<b>217</b>	<b>16.2</b>	<b>0</b>	<b>31073</b>
<b>Pioneer</b>	<b>P0732Q</b>	<b>255</b>	-	-	<b>16.6</b>	<b>0</b>	<b>33977</b>
Revere	0707 DGVT2P	240	233	236	17.1	0	31654
<b>Trial Mean</b>		<b>245</b>	<b>225</b>	-	<b>16.7</b>	<b>0</b>	<b>33341</b>
<b>Probability &gt; F</b>		<b>0.0038</b>	-	-	<b>0.1745</b>	-	<b>0.4083</b>
<b>LSD<sub>0.1</sub></b>		<b>22</b>	-	-	<b>NS<sup>5</sup></b>	-	<b>NS<sup>5</sup></b>
<b>CV%</b>		<b>10.0</b>	-	-	<b>3.9</b>	-	<b>5.8</b>

<sup>1</sup>See Table 5 for trait designations for early season hybrids.

<sup>2</sup>Yields are reported at 15% moisture content.

<sup>3</sup>Lodging is recorded as percentage of plants that are broken below the ear and/or leaning 45° or greater.

<sup>4</sup>Hybrids in **bold** are checks.

<sup>5</sup>NS indicates that no statistically significant difference was observed for this characteristic.

\*Hybrids with an asterisk next to yield are not statistically different (Probability > F ≤ 0.1) compared to the top yielding hybrid (highlighted in blue) at this location.



Table 15. Performance of mid-season maturity hybrids evaluated at Lower Eastern Shore Research and Education Center – Salisbury Facility in 2023.

Brand	Hybrid Name <sup>1</sup>	Yield <sup>2</sup> (bu/ac)		2 yr avg	Moisture %	Lodging <sup>3</sup> %	Population (plants/ac)
		2023	2022				
Augusta	A2262	234	-	-	16.7	0	32815
Axis	60W75	267	-	-	17.8	0	35719
Dekalb	DKC59-82RIB	245	249	247	17.5	0	35429
Dekalb	DKC111-35RIB	258	-	-	17.6	0	33977
Dekalb	DKC61-41RIB	268	256	262	17.5	0	34267
<b>Dekalb</b>	<b>DKC62-70RIB</b>	<b>263</b>	<b>238</b>	<b>250</b>	<b>17.6</b>	<b>0</b>	<b>35138</b>
Dyna-Gro	D50VC09RIB	249	252	250	17.5	0	34267
Mid-Atlantic Seeds	MA6094PWE	253	-	-	17.6	0	35429
Mid-Atlantic Seeds	MA8108VT2PRIB	227	235	231	17.5	0	32815
Mid-Atlantic Seeds	MA8110TRECIB	244	259	251	17.8	0	32815
Mid-Atlantic Seeds	MA5124VIP3110	247	214	230	18.4	0	34848
NK/Syngenta	1040-AA-EZ1	242	-	-	17.6	0	31654
NK/Syngenta	1188-AA	261	-	-	18.2	0	34848
<b>Pioneer</b>	<b>P1136AM</b>	<b>238</b>	-	-	<b>17.9</b>	<b>0</b>	<b>33396</b>
Revere	0918 VT2P	240	242	241	17.1	0	32234
<b>Trial Mean</b>		<b>249</b>	<b>263</b>	-	<b>17.6</b>	<b>0</b>	<b>33977</b>
<b>Probability &gt; F</b>		<b>0.1063</b>	-	-	<b>0.0262</b>	-	<b>0.1882</b>
<b>LSD<sub>0.1</sub></b>		<b>NS<sup>5</sup></b>	-	-	<b>0.6</b>	-	<b>NS<sup>5</sup></b>
<b>CV%</b>		<b>7.7</b>	-	-	<b>3.1</b>	-	<b>6.1</b>

<sup>1</sup>See Table 6 for trait designations for mid-season hybrids.

<sup>2</sup>Yields are reported at 15% moisture content.

<sup>3</sup>Lodging is recorded as percentage of plants that are broken below the ear and/or leaning 45° or greater.

<sup>4</sup>Hybrids in **bold** are checks.

<sup>5</sup>NS indicates that no statistically significant difference was observed for this characteristic.

Table 16. Performance of full season maturity hybrids evaluated at Lower Eastern Shore Research and Education Center – Salisbury Facility in 2023.

Brand	Hybrid Name <sup>1</sup>	Yield <sup>2</sup> (bu/ac)		2 yr avg	Moisture %	Lodging <sup>3</sup> %	Population (plants/ac)
		2023	2022				
<b>AgriGold</b>	<b>A643-52VT2RIB</b>	<b>263</b>	-	-	<b>18.6</b>	<b>3</b>	<b>34267</b>
Augusta	A2164	246	-	-	17.6	1	34267
Axis	66Z71	273*	-	-	20.2	0	35429
Dekalb	DKC64-22RIB	270	-	-	18.4	0	34848
Dekalb	DKC65-95RIB	269	229	249	18.7	0	36881
<b>Dekalb</b>	<b>DKC66-06RIB</b>	<b>289*</b>	-	-	<b>18.2</b>	<b>0</b>	<b>34267</b>
Dekalb	DKC67-94RIB	280*	236	258	18.7	0	34267
Dekalb	DKC67-44RIB	284*	-	-	19.2	0	36590
Dekalb	DKC68-35RIB	288*	-	-	19.6	0	35719
Dekalb	DKC70-45RIB	248	-	-	19.8	0	29911
Dyna-Gro	D53TC23RIB	250	233	241	17.7	0	31944
Dyna-Gro	D53VC54RIB	251	-	-	18.7	2	33106
Dyna-Gro	D56TC44RIB	269	-	-	17.9	1	34267
FS InVISION	FS 6424V RIB	267	240	253	18.7	1	32234
Hubner	H13G513	266	218	242	18.0	1	33686
Hubner	H4763RC2P	271*	205	238	18.2	0	36010
Hubner	H1880D	281*	218	249	19.6	0	37171
Mid-Atlantic Seeds	MA8136DGVT2PRIB	254	236	245	17.8	0	34267
Mid-Atlantic Seeds	MA8145VT2PRIB	261	215	238	18.2	0	36010
Mid-Atlantic Seeds	MA6148PWE	249	-	-	18.2	0	33686
Mid-Atlantic Seeds	MA6153PWE	265	-	-	18.7	0	33686
NK/Syngenta	1523-V-EZ1	259	-	-	18.7	1	36010
<b>Pioneer</b>	<b>P1608AM</b>	<b>264</b>	-	-	<b>19.7</b>	<b>0</b>	<b>34558</b>
Revere	1307 TC	269	246	257	17.5	0	35429
Revere	1577 VT2P	263	-	-	17.9	0	32815
Revere	1627 TC	269	-	-	18.9	0	33396
Seedway	SW 1421VT	259	254	252	18.4	0	33396
Seedway	SW 1600VT	244	-	-	17.7	3	31944
Seedway	SW 1661SS	266	-	-	18.3	1	34848
<b>Trial Mean</b>		<b>265</b>	<b>226</b>	-	<b>18.5</b>	<b>0.6</b>	<b>34307</b>
<b>Probability &gt; F</b>		<b>0.0025</b>	-	-	<b>&lt;0.0001</b>	<b>0.3314</b>	<b>0.0703</b>
<b>LSD<sub>0.1</sub></b>		<b>18</b>	-	-	<b>0.7</b>	<b>NS<sup>5</sup></b>	<b>3074</b>
<b>CV%</b>		<b>6.2</b>	-	-	<b>4.4</b>	<b>219</b>	<b>7.2</b>

<sup>1</sup>See Table 7 for trait designations for full season hybrids.

<sup>2</sup>Yields are reported at 15% moisture content.

<sup>3</sup>Lodging is recorded as percentage of plants that are broken below the ear and/or leaning 45° or greater.

<sup>5</sup>NS indicates that no statistically significant difference was observed for this characteristic.

\*Hybrids with an asterisk next to yield are not statistically different (Probability > F ≤ 0.1) compared to the top yielding hybrid (highlighted in blue) at this location.

Table 17. Performance of early season maturity hybrids evaluated at Western Maryland Research and Education Center in 2023.

Brand	Hybrid Name <sup>1</sup>	Yield <sup>2</sup> (bu/ac)		2 yr avg	Moisture %	Lodging <sup>3</sup> %	Population (plants/ac)
		2023	2022				
<b>AgriGold</b>	<b>A637-55-5222EZ</b>	<b>211</b>	-	-	<b>16.1</b>	<b>0</b>	<b>36041</b>
Augusta	A1958	206	-	-	17.3	0	31732
Axis	48A72	204	-	-	14.2	3	30598
Axis	57K72	190	-	-	14.9	3	26234
Dekalb	DKC105-35RIB	199	-	-	15.1	0	31448
Dekalb	DKC56-26RIB	219	255	237	15.6	0	32581
Dekalb	DKC108-64RIB	201	-	-	15.8	0	30009
Dyna-Gro	D45TC55RIB	198	-	-	15.2	0	30882
Hubner	H0881D	205	-	-	15.0	0	32581
Hubner	H09G056	224	-	-	16.5	0	34281
<b>Pioneer</b>	<b>P0075AM</b>	<b>174</b>	<b>216</b>	<b>195</b>	<b>15.1</b>	<b>0</b>	<b>27681</b>
<b>Pioneer</b>	<b>P0732Q</b>	<b>221</b>	-	-	<b>15.6</b>	<b>0</b>	<b>30032</b>
Revere	0707 DGVT2P	186	240	213	15.4	0	31732
<b>Trial Mean</b>		<b>203</b>	<b>241</b>	-	<b>15.5</b>	<b>0.5</b>	<b>31218</b>
<b>Probability &gt; F</b>		<b>0.1983</b>	-	-	<b>0.0003</b>	<b>0.4777</b>	<b>0.0032</b>
<b>LSD<sub>0.1</sub></b>		<b>NS<sup>5</sup></b>	-	-	<b>0.8</b>	<b>NS<sup>5</sup></b>	<b>3212</b>
<b>CV%</b>		<b>12.5</b>	-	-	<b>6.3</b>	<b>436</b>	<b>10.2</b>

<sup>1</sup>See Table 5 for trait designations for early season hybrids.

<sup>2</sup>Yields are reported at 15% moisture content.

<sup>3</sup>Lodging is recorded as percentage of plants that are broken below the ear and/or leaning 45° or greater.

<sup>4</sup>Hybrids in **bold** are checks.

<sup>5</sup>NS indicates that no statistically significant difference was observed for this characteristic.

Table 18. Performance of mid-season maturity hybrids evaluated at Western Maryland Research and Education Center in 2023.

Brand	Hybrid Name <sup>1</sup>	Yield <sup>2</sup> (bu/ac)		2 yr avg	Moisture %	Lodging <sup>3</sup> %	Population (plants/ac)
		2023	2022				
Augusta	A2262	227	-	-	18.5	0	34565
Axis	60W75	193	-	-	15.1	0	32865
Dekalb	DKC59-82RIB	197	268	232	16.8	2	29534
Dekalb	DKC111-35RIB	207	-	-	17.6	0	33148
Dekalb	DKC61-41RIB	205	266	235	16.5	1	31448
<b>Dekalb</b>	<b>DKC62-70RIB</b>	<b>184</b>	<b>279</b>	<b>231</b>	<b>16.0</b>	<b>4</b>	<b>31448</b>
Dyna-Gro	D50VC09RIB	206	268	237	16.7	0	31486
Mid-Atlantic Seeds	MA6094PWE	220	-	-	16.2	0	32964
Mid-Atlantic Seeds	MA8108VT2PRIB	194	247	220	16.6	0	31023
Mid-Atlantic Seeds	MA8110TRECIB	205	273	240	16.4	0	29394
Mid-Atlantic Seeds	MA5124VIP3110	186	258	222	19.4	0	34281
NK/Syngenta	1040-AA-EZ1	192	-	-	17.4	0	31732
NK/Syngenta	1188-AA	200	-	-	17.5	0	32298
<b>Pioneer</b>	<b>P1136AM</b>	<b>218</b>	-	-	<b>18.7</b>	<b>0</b>	<b>29465</b>
Revere	0918 VT2P	185	258	221	15.2	1	32298
<b>Trial Mean</b>		<b>201</b>	<b>260</b>	-	<b>17.0</b>	<b>0.6</b>	<b>31820</b>
<b>Probability &gt; F</b>		<b>0.3815</b>	-	-	<b>0.0116</b>	<b>0.2320</b>	<b>0.0762</b>
<b>LSD<sub>0.1</sub></b>		<b>NS<sup>5</sup></b>	-	-	<b>1.8</b>	<b>NS<sup>5</sup></b>	<b>2824</b>
<b>CV%</b>		<b>13.0</b>	-	-	<b>10.1</b>	<b>292</b>	<b>7.2</b>

<sup>1</sup>See Table 6 for trait designations for mid-season hybrids.

<sup>2</sup>Yields are reported at 15% moisture content.

<sup>3</sup>Lodging is recorded as percentage of plants that are broken below the ear and/or leaning 45° or greater.

<sup>4</sup>Hybrids in **bold** are checks.

<sup>5</sup>NS indicates that no statistically significant difference was observed for this characteristic.

Table 19. Performance of full season maturity hybrids evaluated at Western Maryland Research and Education Center in 2023.

Brand	Hybrid Name <sup>1</sup>	Yield <sup>2</sup> (bu/ac)		2 yr avg	Moisture %	Lodging <sup>3</sup> %	Population (plants/ac)
		2023	2022				
<b>AgriGold</b>	<b>A643-52VT2RIB</b>	<b>206</b>	-	-	<b>18.2</b>	<b>1</b>	<b>33431</b>
Augusta	A2164	186	-	-	19.1	0	32581
Axis	66Z71	163	-	-	20.1	0	32581
Dekalb	DKC64-22RIB	187	-	-	18.4	0	27898
Dekalb	DKC65-95RIB	181	267	224	17.7	0	34281
<b>Dekalb</b>	<b>DKC66-06RIB</b>	<b>194</b>	-	-	<b>17.7</b>	<b>0</b>	<b>33148</b>
Dekalb	DKC67-94RIB	190	249	219	17.8	0	33998
Dekalb	DKC67-44RIB	202	-	-	17.3	2	34281
Dekalb	DKC68-35RIB	187	-	-	18.3	0	32298
Dekalb	DKC70-45RIB	180	-	-	18.7	0	34238
Dyna-Gro	D53TC23RIB	178	256	217	16.1	1	30766
Dyna-Gro	D53VC54RIB	190	-	-	16.4	0	32000
Dyna-Gro	D56TC44RIB	184	-	-	17.5	0	31165
FS InVISION	FS 6424V RIB	191	290	240	16.4	0	32817
Hubner	H13G513	192	262	227	17.8	0	32581
Hubner	H4763RC2P	173	262	217	17.6	0	30882
Hubner	H1880D	181	282	231	18.3	0	32581
Mid-Atlantic Seeds	MA8136DGVT2PRIB	203	268	235	16.7	0	32865
Mid-Atlantic Seeds	MA8145VT2PRIB	184	270	227	18.0	0	31448
Mid-Atlantic Seeds	MA6148PWE	181	-	-	18.1	0	30032
Mid-Atlantic Seeds	MA6153PWE	170	-	-	18.4	0	29748
NK/Syngenta	1523-V-EZ1	194	-	-	19.7	0	32298
<b>Pioneer</b>	<b>P1608AM</b>	<b>180</b>	-	-	<b>17.7</b>	<b>0</b>	<b>27932</b>
Revere	1307 TC	206	261	233	16.2	1	31165
Revere	1577 VT2P	181	-	-	16.3	1	31448
Revere	1627 TC	193	-	-	17.7	0	31732
Seedway	SW 1421VT	186	292	239	17.9	0	30882
Seedway	SW 1600VT	195	-	-	15.9	1	31165
Seedway	SW 1661SS	192	-	-	18.3	0	32581
<b>Trial Mean</b>		<b>187</b>	<b>265</b>	-	<b>17.7</b>	<b>0.3</b>	<b>31890</b>
<b>Probability &gt; F</b>		<b>0.1307</b>	-	-	<b>0.0002</b>	<b>0.6060</b>	<b>0.0341</b>
<b>LSD<sub>0.1</sub></b>		<b>NS<sup>5</sup></b>	-	-	<b>1.4</b>	<b>NS<sup>5</sup></b>	<b>2902</b>
<b>CV%</b>		<b>10.6</b>	-	-	<b>7.6</b>	<b>312</b>	<b>7.5</b>

<sup>1</sup>See Table 7 for trait designations for full season hybrids.

<sup>2</sup>Yields are reported at 15% moisture content.

<sup>3</sup>Lodging is recorded as percentage of plants that are broken below the ear and/or leaning 45° or greater.

<sup>5</sup>NS indicates that no statistically significant difference was observed for this characteristic.

Table 20. Performance of early season maturity hybrids evaluated at Central Maryland Research and Education Center – Clarksville Facility in 2023.

Brand	Hybrid Name <sup>1</sup>	Yield <sup>2</sup> (bu/ac)		2 yr avg	Moisture %	Lodging <sup>3</sup> %	Population (plants/ac)
		2023	2022				
<b>AgriGold</b>	<b>A637-55-5222EZ</b>	<b>211</b>	-	-	<b>16.7</b>	<b>0</b>	<b>30598</b>
Augusta	A1958	202	-	-	18.1	0	31448
Axis	48A72	192	-	-	15.1	1	30173
Axis	57K72	213	-	-	15.9	1	33847
Dekalb	DKC105-35RIB	-	-	-	-	-	-
Dekalb	DKC56-26RIB	198	188	193	16.2	0	25499
Dekalb	DKC108-64RIB	220*	-	-	17.1	1	26065
Dyna-Gro	D45TC55RIB	187	-	-	16.0	0	28705
Hubner	H0881D	214	-	-	15.9	3	26632
Hubner	H09G056	253*	-	-	16.6	0	32585
<b>Pioneer</b>	<b>P0075AM</b>	<b>163</b>	<b>137</b>	<b>150</b>	<b>15.3</b>	<b>4</b>	<b>28081</b>
<b>Pioneer</b>	<b>P0732Q</b>	<b>199</b>	-	-	<b>16.4</b>	<b>2</b>	<b>29465</b>
Revere	0707 DGVT2P	-	-	-	-	-	-
<b>Trial Mean</b>		<b>204</b>	<b>160</b>	-	<b>16.3</b>	<b>1.2</b>	<b>29019</b>
<b>Probability &gt; F</b>		<b>0.0458</b>	-	-	<b>0.0266</b>	<b>0.4022</b>	<b>0.1254</b>
<b>LSD<sub>0.1</sub></b>		<b>34</b>	-	-	<b>1.1</b>	<b>NS<sup>5</sup></b>	<b>NS<sup>5</sup></b>
<b>CV%</b>		<b>13.6</b>	-	-	<b>2.8</b>	<b>198</b>	<b>12.2</b>

<sup>1</sup>See Table 5 for trait designations for early season hybrids.

<sup>2</sup>Yields are reported at 15% moisture content.

<sup>3</sup>Lodging is recorded as percentage of plants that are broken below the ear and/or leaning 45° or greater.

<sup>4</sup>Hybrids in **bold** are checks.

<sup>5</sup>NS indicates that no statistically significant difference was observed for this characteristic.

\*Hybrids with an asterisk next to yield are not statistically different (Probability > F ≤ 0.1) compared to the top yielding hybrid (highlighted in blue) at this location.

Table 21. Performance of mid-season maturity hybrids evaluated at Central Maryland Research and Education Center – Clarksville Facility in 2023.

Brand	Hybrid Name <sup>1</sup>	Yield <sup>2</sup> (bu/ac)		2 yr avg	Moisture %	Lodging <sup>3</sup> %	Population (plants/ac)
		2023	2022				
Augusta	A2262	227	-	-	16.6	0	32298
Axis	60W75	237	-	-	16.9	0	32865
Dekalb	DKC59-82RIB	220	205	212	16.7	0	29182
Dekalb	DKC111-35RIB	250	-	-	17.8	0	28898
Dekalb	DKC61-41RIB	227	194	210	17.3	0	30328
<b>Dekalb</b>	<b>DKC62-70RIB</b>	<b>233</b>	<b>221</b>	<b>227</b>	<b>17.3</b>	<b>0</b>	<b>30598</b>
Dyna-Gro	D50VC09RIB	234	208	221	17.0	0	30184
Mid-Atlantic Seeds	MA6094PWE	244	-	-	17.6	0	30598
Mid-Atlantic Seeds	MA8108VT2PRIB	191	221	206	17.1	4	28898
Mid-Atlantic Seeds	MA8110TRECIB	215	226	220	17.2	6	30032
Mid-Atlantic Seeds	MA5124VIP3110	231	198	214	17.8	0	33715
NK/Syngenta	1040-AA-EZ1	218	-	-	17.2	2	28332
NK/Syngenta	1188-AA	223	-	-	17.9	1	31096
<b>Pioneer</b>	<b>P1136AM</b>	<b>221</b>	-	-	<b>17.1</b>	<b>1</b>	<b>32865</b>
Revere	0918 VT2P	224	200	212	16.7	0	26773
<b>Trial Mean</b>		<b>226</b>	<b>205</b>	-	<b>17.2</b>	<b>0.9</b>	<b>30528</b>
<b>Probability &gt; F</b>		<b>0.2310</b>	-	-	<b>0.4663</b>	<b>0.3353</b>	<b>0.0411</b>
<b>LSD<sub>0.1</sub></b>		<b>NS<sup>5</sup></b>	-	-	<b>NS<sup>5</sup></b>	<b>NS<sup>5</sup></b>	<b>3014</b>
<b>CV%</b>		<b>10.3</b>	-	-	<b>4.1</b>	<b>296</b>	<b>8.3</b>

<sup>1</sup>See Table 6 for trait designations for mid-season hybrids.

<sup>2</sup>Yields are reported at 15% moisture content.

<sup>3</sup>Lodging is recorded as percentage of plants that are broken below the ear and/or leaning 45° or greater.

<sup>4</sup>Hybrids in **bold** are checks.

<sup>5</sup>NS indicates that no statistically significant difference was observed for this characteristic.

Table 22. Performance of full season maturity hybrids evaluated at Central Maryland Research and Education Center – Clarksville Facility in 2023.

Brand	Hybrid Name <sup>1</sup>	Yield <sup>2</sup> (bu/ac)		2 yr avg	Moisture %	Lodging <sup>3</sup> %	Population (plants/ac)
		2023	2022				
<b>AgriGold</b>	<b>A643-52VT2RIB</b>	<b>223</b>	-	-	<b>19.6</b>	<b>8</b>	<b>29748</b>
Augusta	A2164	202	-	-	17.8	2	31448
Axis	66Z71	226	-	-	19.8	0	30598
Dekalb	DKC64-22RIB	246	-	-	17.6	0	31448
Dekalb	DKC65-95RIB	231	227	229	17.9	4	33148
<b>Dekalb</b>	<b>DKC66-06RIB</b>	<b>242</b>	-	-	<b>18.0</b>	<b>1</b>	<b>32259</b>
Dekalb	DKC67-94RIB	223	246	234	18.1	0	31448
Dekalb	DKC67-44RIB	233	-	-	17.8	4	30823
Dekalb	DKC68-35RIB	247	-	-	19.1	0	29748
Dekalb	DKC70-45RIB	225	-	-	18.6	0	29465
Dyna-Gro	D53TC23RIB	226	235	230	16.3	2	28898
Dyna-Gro	D53VC54RIB	230	-	-	17.3	1	32123
Dyna-Gro	D56TC44RIB	230	-	-	18.2	0	29748
FS InVISION	FS 6424V RIB	214	239	226	18.1	0	32015
Hubner	H13G513	218	218	218	17.4	4	31448
Hubner	H4763RC2P	242	236	239	17.9	1	33148
Hubner	H1880D	216	233	224	18.9	0	30315
Mid-Atlantic Seeds	MA8136DGVT2PRIB	-	-	-	-	-	-
Mid-Atlantic Seeds	MA8145VT2PRIB	228	212	220	17.3	0	32865
Mid-Atlantic Seeds	MA6148PWE	219	-	-	17.8	1	32581
Mid-Atlantic Seeds	MA6153PWE	214	-	-	17.4	1	32347
NK/Syngenta	1523-V-EZ1	226	-	-	18.6	2	30032
<b>Pioneer</b>	<b>P1608AM</b>	<b>237</b>	-	-	<b>19.4</b>	<b>0</b>	<b>28048</b>
Revere	1307 TC	209	231	220	16.1	2	31165
Revere	1577 VT2P	226	-	-	17.0	1	27482
Revere	1627 TC	256	-	-	18.2	0	31448
Seedway	SW 1421VT	224	226	225	17.8	0	31732
Seedway	SW 1600VT	282	-	-	17.5	0	31611
Seedway	SW 1661SS	236	-	-	18.5	0	31448
<b>Trial Mean</b>		<b>229</b>	<b>225</b>	-	<b>18.0</b>	<b>1.3</b>	<b>31014</b>
<b>Probability &gt; F</b>		<b>0.1038</b>	-	-	<b>0.0001</b>	<b>0.2485</b>	<b>0.2238</b>
<b>LSD<sub>0.1</sub></b>		<b>NS<sup>5</sup></b>	-	-	<b>1.1</b>	<b>NS<sup>5</sup></b>	<b>NS<sup>5</sup></b>
<b>CV%</b>		<b>11.0</b>	-	-	<b>6.4</b>	<b>242</b>	<b>7.5</b>

<sup>1</sup>See Table 7 for trait designations for full season hybrids.

<sup>2</sup>Yields are reported at 15% moisture content.

<sup>3</sup>Lodging is recorded as percentage of plants that are broken below the ear and/or leaning 45° or greater.

<sup>5</sup>NS indicates that no statistically significant difference was observed for this characteristic.



Table 23. Relative yield scores for early season hybrids evaluated in 2023. Hybrids with scores 100 or greater at four locations are considered to have good stability.

Brand	Hybrid Name	Relative Yield				
		Avg. 4 sites	Wye	Salisbury	Clarksville	Keedysville
<b>AgriGold</b>	<b>A637-55-5222EZ</b>	<b>99</b>	<b>96</b>	<b>91</b>	<b>103</b>	<b>104</b>
Augusta	A1958	98	96	95	99	102
Axis	48A72	95	93	91	94	100
Axis	57K72	101	106	102	104	93
Dekalb	DKC105-35RIB	98	91	105	-	98
Dekalb	DKC56-26RIB	106	111	107	97	108
Dekalb	DKC108-64RIB	103	106	100	108	99
Dyna-Gro	D45TC55RIB	98	100	104	92	97
Hubner	H0881D	103	104	103	105	101
Hubner	H09G056	112	106	112	124	110
<b>Pioneer</b>	<b>P0075AM</b>	<b>86</b>	<b>88</b>	<b>90</b>	<b>80</b>	<b>86</b>
<b>Pioneer</b>	<b>P0732Q</b>	<b>105</b>	<b>108</b>	<b>104</b>	<b>98</b>	<b>109</b>
Revere	0707 DGVT2P	95	94	98	-	92
<b>Trial Mean (bu/ac)</b>		<b>219</b>	<b>223</b>	<b>245</b>	<b>204</b>	<b>203</b>

<sup>1</sup>Hybrids in **bold** are checks included with funding from Maryland Grain Producers Utilization Board

Hybrids highlighted in **green** have relative yield ratings of 100 or greater at all sites

Hybrid highlighted in **yellow** have relative yield ratings of 100 or greater at three testing sites

Table 24. Relative yield scores for mid-season hybrids evaluated in 2023. Hybrids with scores 100 or greater at four locations are considered to have good stability.

Brand	Hybrid Name	Relative Yield				
		Avg. 4 Sites	Wye	Salisbury	Clarksville	Keedysville
Augusta	A2262	98	86	94	100	113
Axis	60W75	100	91	107	105	96
Dekalb	DKC59-82RIB	99	102	98	97	98
Dekalb	<b>DKC111-35RIB</b>	105	104	104	111	103
Dekalb	DKC61-41RIB	102	99	108	101	102
<b>Dekalb</b>	<b>DKC62-70RIB</b>	103	<b>111</b>	<b>106</b>	<b>103</b>	<b>91</b>
Dyna-Gro	D50VC09RIB	102	104	100	103	102
Mid-Atlantic Seeds	MA6094PWE	107	111	102	108	109
Mid-Atlantic Seeds	MA8108VT2PRIB	93	99	91	84	97
Mid-Atlantic Seeds	MA8110TRECRIB	100	103	98	95	102
Mid-Atlantic Seeds	MA5124VIP3110	99	104	99	102	93
NK/Syngenta	1040-AA-EZ1	96	95	97	96	95
NK/Syngenta	1188-AA	99	91	105	99	100
<b>Pioneer</b>	<b>P1136AM</b>	100	<b>100</b>	<b>96</b>	<b>98</b>	<b>113</b>
Revere	0918 VT2P	98	104	96	99	96
<b>Trial Mean (bu/ac)</b>		<b>227</b>	<b>233</b>	<b>249</b>	<b>226</b>	<b>201</b>

<sup>1</sup>Hybrids in **bold** are checks included with funding from Maryland Grain Producers Utilization Board

Hybrids highlighted in **green** have relative yield ratings of 100 or greater at all sites

Hybrid highlighted in **yellow** have relative yield ratings of 100 or greater at three testing sites

Table 25. Relative yield scores for full season hybrids evaluated in 2023. Hybrids with scores 100 or greater at four locations are considered to have good stability.

Brand	Hybrid Name	Relative Yield				
		Avg. 4 Sites	Wye	Salisbury	Clarksville	Keedysville
<b>AgriGold</b>	<b>A643-52VT2RIB</b>	<b>102</b>	<b>103</b>	<b>99</b>	<b>97</b>	<b>108</b>
Augusta	A2164	93	89	93	88	92
Axis	66Z71	98	105	103	99	110
Dekalb	DKC64-22RIB	102	101	102	107	100
Dekalb	DKC65-95RIB	100	99	102	101	87
<b>Dekalb</b>	<b>DKC66-06RIB</b>	<b>105</b>	<b>101</b>	<b>109</b>	<b>106</b>	<b>100</b>
Dekalb	DKC67-94RIB	101	100	106	97	97
Dekalb	DKC67-44RIB	106	106	107	102	104
Dekalb	DKC68-35RIB	106	107	109	108	102
Dekalb	DKC70-45RIB	98	105	93	98	108
Dyna-Gro	D53TC23RIB	97	101	94	99	100
Dyna-Gro	D53VC54RIB	99	99	95	101	97
Dyna-Gro	D56TC44RIB	100	100	101	100	95
FS InVISION	FS 6424V RIB	99	98	101	94	102
Hubner	H13G513	100	102	100	95	98
Hubner	H4763RC2P	102	105	102	106	102
Hubner	H1880D	99	100	106	94	103
Mid-Atlantic Seeds	MA8136DGVT2PRIB	98	90	96	-	93
Mid-Atlantic Seeds	MA8145VT2PRIB	99	102	98	99	97
Mid-Atlantic Seeds	MA6148PWE	97	100	94	96	108
Mid-Atlantic Seeds	MA6153PWE	96	98	100	93	98
NK/Syngenta	1523-V-EZ1	97	89	98	99	97
<b>Pioneer</b>	<b>P1608AM</b>	<b>99</b>	<b>98</b>	<b>99</b>	<b>104</b>	<b>91</b>
Revere	1307 TC	100	97	101	91	104
Revere	1577 VT2P	99	103	99	99	96
Revere	1627 TC	106	106	102	112	110
Seedway	SW 1421VT	99	101	98	98	97
Seedway	SW 1600VT	103	99	92	123	103
Seedway	SW 1661SS	102	102	100	103	99
<b>Trial Mean (bu/ac)</b>		<b>230</b>	<b>238</b>	<b>265</b>	<b>229</b>	<b>187</b>

Hybrids highlighted in green have relative yield ratings of 100 or greater at all sites

Hybrid highlighted in yellow have relative yield ratings of 100 or greater at three testing sites